



Patent Abstracts of Japan

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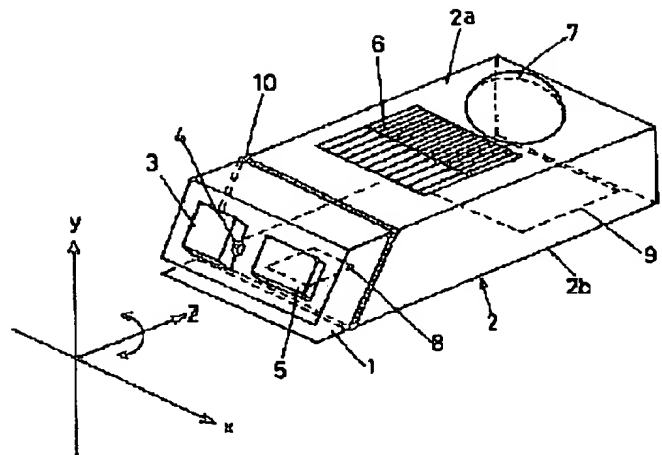
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TITLE : OPTICAL INTEGRATED CIRCUIT AND
ITS MANUFACTURE



ABSTRACT : PURPOSE: To provide an optical integrated circuit capable of having high yield and greatly reducing cost by assembling a photodetector with high precision.

CONSTITUTION: A semiconductor laser 4 mounted on a submount 3 and the multi-divided photodetector 5 are assembled on a 1st transparent substrate 1. A mirror 8, a hologram beam splitter 6, a hologram collimator lens 9, and an aspherical objective lens 7 are formed integrally on the top and reverse surfaces of a 2nd transparent substrate 2. Then the 1st transparent substrate 1 is supported by an alignment adjusting means so that they can move relatively in both axial directions X and Y and rotate relatively around a Z axis as a center to the 2nd transparent substrate 2 while holding an adhesive 10 therebetween. The light emitted the semiconductor laser 4 and reflected by an optical disk as return light is detected by the multi-divided photodetector 5 and the 1st transparent substrate 1 is aligned about the 2nd transparent substrate 2 so as to obtain a tracking servo signal and a focus servo signal; and then the adhesive 10 is cured to fix the substrates 1 and 2.

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